

AF35L2 Ge Lens Technical Data



JIANGSU ASCENDENT OPTRONICS INC.

Module		AF35L2	Detect	Identify	Verify
Focus Length		35mm			
F number		F1.2			
Lens mounting		M25*0.5			
Lenses back distance range		13 ~ 19.22mm (with lock			
Idoneity of detector diagonal		≤14mm			
FOV (H×V)	17μm384×288	10.7 °×8.0 °	1029m	257m	129m
	25μm384×288	15.6 °×11.7 °	700m	175m	88m
	17μm640×480	17.7 °×13.3 °	1029m	257m	129m
Lenses Structure		2G (spherical*2)	The above data according to the Johnson criterion calculation (1.5 pixels for detection , 6 pixels for identification,12 pixels for verification, the probability is 50%, the contrast of target and background is 1). The target size is calculated based on the critical size of the car(2.3 meters). The actual range will be affected by other factors such as attenuation vary, different climatic conditions, the thermal sensitivity of the detector pixel, noise, image algorithm, target background difference.		
Lenses Material		High pure Ge Mono crystal			
Operating Wave length (μm)		8 ~ 14			
Distortion		< 0.7%			
Central MTF		0.7 @20 line to/mm			
Marginal MTF		0.5 @20 line to/mm			
Lens coating		AR			
Coating transmissivity		96%			
Bets imaging range		1m ~ ∞			
Focusing		Fixed			
Intercept		14.5mm			
Exposed parts waterproof		Yes			
Operating temperature		-40°C ~ +60°C			
Weight		40g (No lens cover)			
Max diameter		Φ36mm			
Length		25.4mm			
Aperture		Fixed circular aperture			
Standard accessories		Front & Back cover			

